

CONTACT INFORMATION	Graduate Teaching Assistant University of Nebraska-Lincoln Email: bhuenemann3@nebraska.edu Office: Avery 320	
EDUCATION	Ph.D. Student in Mathematics , University of Nebraska, Lincoln Advised by Alexandra Seceleanu M.S. in Mathematics , University of Nebraska, Lincoln B.S. in Mathematics , University of Utah B.S. in Computer Science with Honors , University of Utah	2023 – Current 2023 - 2024 2019 - 2023 2019 - 2023
PUBLICATIONS	Comparison of atlas-based and neural-network-based semantic segmentation for DENSE MRI images with Emma Hart and Elle Buser. <i>SIAM Undergraduate Research Online, Vol. 15 (2022)</i> .	
	On χ-slice pretzel links with Sophia Fanelle, Evan Huang, Weizhe Shen, Jonathan Simone, and Hannah Turner. <i>Topology and its Applications, Vol. 375 (2025)</i> .	
RESEARCH TALKS AND POSTERS	<i>Betti numbers of toric ideals via simplicial complexes</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>Buchsbaum-Eisenbud Theorem</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>Adding an Integer Linear Programming solver to SweetPea</i> Senior thesis research results, University of Utah <i>On χ-slice pretzel links</i> Gulf Coast Undergraduate Research Symposium, Rice University <i>Applications of Donaldson's Diagonalization Theorem</i> Georgia Tech REU Poster Session, Georgia Institute of Technology <i>Image-based diagnosis of Chiari Malformation</i> Georgia Scientific Computing Symposium, Georgia Institute of Technology <i>Image-based diagnosis of Chiari Malformation</i> Emory REU/RET Poster Session, Emory University <i>Dependency Slogger</i> Undergraduate Research Symposium, University of Utah	October 2025 July 2025 May 2023 Oct 2022 July 2022 Feb 2022 July 2021 April 2021
TEACHING EXPERIENCE	Math 100A - Intermediate Algebra , Associate Convener, Instructor of Record Math 203 - Contemporary Mathematics , Instructor of Record Math 101 - College Algebra , Instructor of Record Math 106 - Calculus 1 , Recitation Instructor Math 106 - Calculus 1 , Recitation Instructor	Fall 2025 Spring 2025 Fall 2024 Spring 2024 Fall 2023
HONORS	Utah Flagship Scholarship Tom and Cathy Saxton Math Scholarship David E. & Carol C. Salisbury Legacy Endowed Engineering Scholarship Golden Math Scholarship Paul G. & Alison R. Mayfield Engineering Undergraduate Scholarship Calvin H. Wilcox Memorial Math Scholarship Joseph Hyde Merrill Engineering Scholarship College of Science Freshman Scholarship	2019 – 2023 2022 2022 2021 2021 2020 2020 2019

CONFERENCES	<i>KUMUNU</i> University of Missouri, Colombia, MO <i>Commutative Algebra Market Preparation</i> University of Nebraska-Lincoln, NE <i>URiCA</i> University of Nebraska-Lincoln, NE <i>Gulf Coast Undergraduate Research Symposium</i> Rice University, TE <i>Georgia Scientific Computing Symposium</i> Georgia Institute of Technology, GA <i>Undergraduate Research Symposium</i> University of Utah, UT	October 2025 Aug 2025 May 2025 Oct 2022 Feb 2022 April 2021
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